

**UNITED STATES DEPARTMENT OF COMMERCE****United States Patent and Trademark Office**

Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
-----------------	-------------	----------------------	---------------------

09/369,992 08/06/99 KARA

A 64-99 :

023713 HM12/0629
GREENLEE WINNER AND SULLIVAN P C
5370 MANHATTAN CIRCLE
SUITE 201
BOULDER CO 80303

EXAMINER

GRUN, J

ART UNIT

PAPER NUMBER

1641

DATE MAILED:

06/29/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trad marks

09/369,992



UNITED STATES DEPARTMENT OF COMMERCE
 Patent and Trademark Office
 COMMISSIONER OF PATENTS AND TRADEMARKS
 Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.

EXAMINER	
ART UNIT	PAPER NUMBER
	18

DATE MAILED:

Please find below a communication from the EXAMINER in charge of this application

Commissioner of Patents

The communication filed on 17 May 2001 is not fully responsive to the communication mailed 29 March 2001 for the reason(s) set forth on the attached Notice to Comply With Requirements For...Sequence Disclosures and/or CRF Diskette Problem Report.

Since the response appears to be bona fide, but through an apparent oversight or inadvertence failed to provide a complete response, applicant is given **ONE (1) MONTH or THIRTY (30) DAYS** from the mailing date of this notice, whichever is longer, within which to supply the omission or correction in order to avoid abandonment. EXTENSIONS OF THIS TIME PERIOD MAY BE GRANTED UNDER 37 CFR § 1.136(a).

Any inquiry concerning this communication should be directed to Examiner James Grun, Ph.D, Technology Center 1600, Group 1640, Art Unit 1641, whose telephone number is (703) 308-3980. If unable to reach the Examiner, Long Le, SPE, can be contacted at (703) 305-3399.

Any questions regarding compliance with the sequence rules requirements specifically should be directed to the departments listed at the bottom of the Notice To Comply.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

James L. Grun, Ph.D.
 June 25, 2001

CHRISTOPHER L. CHIN
 PRIMARY EXAMINER
 GROUP 1800/1641

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- ☐ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations.
- ☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- ☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- ☒ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
- ☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- ☐ 7. Other: _____

Applicant Must Provide:

- ☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- ☒ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- ☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216

For CRF Submission Help, call (703) 308-4212

PatentIn Software Program Support (SIRA)

Technical Assistance.....703-287-0200

To Purchase PatentIn Software.....703-306-2600

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE

1641

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/369,992A

DATE: 05/30/2001
TIME: 11:10:52

Input Set : A:\PTO.txt
Output Set: C:\CRF3\05302001\I369992A.raw

Does Not Comply
Corrected Diskette Needed

4-5

3 <110> APPLICANT: Kara, Anna
4 Ting, Robert
5 Tham, Jill
6 Nelson, James
7 Tan, Theresa
9 <120> TITLE OF INVENTION: Diagnosis of Plasmodium Infection by Analysis of
Extrachromosomal Genetic
10 Material
12 <130> FILE REFERENCE: 64-99
14 <140> CURRENT APPLICATION NUMBER: 09/369992A
C--> 15 <141> CURRENT FILING DATE: 1999-08-06
17 <150> PRIOR APPLICATION NUMBER: AU PO4953/97
18 <151> PRIOR FILING DATE: 1997-02-06
20 <150> PRIOR APPLICATION NUMBER: AU PO6329/97
21 <151> PRIOR FILING DATE: 1997-04-21
23 <160> NUMBER OF SEQ ID NOS: 53
25 <170> SOFTWARE: PatentIn version 3.0
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 5849
29 <212> TYPE: DNA
30 <213> ORGANISM: Plasmodium berghei
32 <400> SEQUENCE: 1
33 taatgaagct gtacatcctt ctaaatatcc aacatatgca aattcacttg ctattaataa 60
35 agtacgttca aattgtgcaa aatcataaga attagtctta aaataagttg ataaattaaa 120
37 actacatttt atatacttag acacataaca aaaagatcct tcactaaaaa taattgaatt 180
39 aatatttgca aaaaaattat ctttataaga aactacagtt cctaaatatt tttttactaa 240
41 taaaggatat tttaaaataa cgtccaataa agacaaaaat ataataccta atttttttaa 300
43 aaaatattgt gttgtatgta aaacagatat actatcacaa ataacatcaa taggaattat 360
45 ttttttatta aaatagggtat ctaaaaaatt tatattttta ttagttttta aatatactaa 420
47 caaattacta tcttttaaag tagaagaata ataaataata ttatcataac taatattggg 480
49 acattcgaata cagcaccat ctggttaatt aaacatatct aaaaatttta aagaatatat 540
51 tttaaatttg taaataaaaa aatataaata aatattatta gataaatttt ttatcaaaatt 600
53 tttattttaat ccatttctta ttaaatataa atttatttta ttattatatt gatatttata 660
55 attttaaatta taaatattta aaaatttttt taattttaat ttatttatca taataatttt 720
57 atattataaa atatttcaag ttaacgatga gatttgaact cacaatctac tgattacaaa 780
59 tcagttgctt taccaattaa gccactttaa caaatataat atttataatt aaatattcaa 840
61 cttatttagga attatacaca aaatatatta ctataaatac atattaattc tataaaataa 900
63 tttttctaata tattgtttta ttcatttata tgattagaat attattttta attaaatttt 960
65 cttatttata ttacttcaac aattaaatt ttatacttaa ctactcaaca ttacaaaata 1020
67 taataattga tatatcattg gtataatttt ttcgatcctc tcgtactaga aaaaataatt 1080
69 tcaatattct aacacttata ttagatatgg accgaactgt ctacagcgt tctgaaccca 1140
71 gctcacgtat cgctttaata ggccaacaga cttaccctta aaacatacta ctgccttagg 1200
73 atgcgataag ccgacatcga ggtgccaaac cttttcgtca atatggactc tcggaaaaga 1260
75 ttagcctggt atccctagag taacttttat ccgttaagcg ataattttat tattaataaa 1320
77 ttatcggatc attaagaccg acattaatct ctgtttaatt tgtaaatttt acagttaatt 1380
79 atataattat ctttatataa taaatataac attgtacacc tccgttttta tataggagga 1440
81 gaccgccccca gtcaaaactat cttataaata ttgttaaaaa ttttggtata aaaattttat 1500
83 aagaatttat atatataata aatggtattt cattaacaat tacattattt ccaaaaaaat 1560

RAW SEQUENCE LISTING

DATE: 05/30/2001

PATENT APPLICATION: US/09/369,992A

TIME: 11:10:52

Input Set : A:\PTO.txt

Output Set: C:\CRF3\05302001\I369992A.raw

85	aatattacta	cttcccat	ttt	attctatg	tt	atatatat	at	ttttca	ata	tctatta	1620
87	gtaaagcttc	atagggct	ctt	tctgtcct	aa	tataagaa	at	ctgcatct	tc	acagata	1680
89	ttatttcatt	aagattttt	tt	aagacag	c	atttaag	tcg	ttacatct	ttt	catgcagg	1740
91	ggaacttacc	cgacaagg	aa	tttcgct	acc	tttggacc	gt	tatagata	ca	gccgccgt	1800
93	actatagctt	atatatat	tata	attttta	aattata	aat	attatttt	ta	cataatag	ca	1860
95	ctgggcagat	gtcaatct	ttt	atacatc	atc	tttcgatt	ta	gcaaagatt	tt	gtgttttt	1920
97	taaacagtcg	cttaaatt	ttt	gtttttc	aa	ctaaata	agt	atctcttc	tc	ccctaagt	1980
99	acgagataaa	tttgcgag	t	tccttaaaa	aaattat	ctc	aacttct	ta	taatttat	at	2040
101	atattttact	a	gtgtcag	ttt	acagta	cga	aa	tacata	ata	ta	2100
103	ttatataata	taata	tatt	attatt	atat	tagtttt	aaa	atata	aatat	tattat	2160
105	tataagaata	tt	aacttatt	ac	tatc	gat	tacacatt	ac	atctcat	ctc	2220
107	taaccctatt	t	aaaata	ata	aatag	ga	gcccttaa	at	tataga	agta	2280
109	accaatattt	acattact	ca	aattag	catt	atcact	ttttg	atata	aattat	tttaact	2340
111	catataaata	atttatatt	c	aaaacg	ctct	tttacc	aatt	taatttt	tatt	aatatt	2400
113	tttatacata	t	cgata	aatta	attttatt	tc	gattatt	ttct	gaactaaa	tactaa	2460
115	atgagctttt	acgcact	ctt	t	aaaagata	aa	ctgctt	ctaa	atttact	ttt	2520
117	aataatttta	tattctttt	t	aagact	tta	aatatt	ttta	aaatct	tta	ttata	2580
119	ggctgtttcc	cttttgaaa	a	t	aaagct	tta	cctttatt	tt	ctgatc	atat	2640
121	ttaaataaaa	ttctt	aaatt	attttc	atta	atatta	acta	tataa	aatt	tttaata	2700
123	aaagagtttt	acatttt	ttt	atatata	aat	actata	ctta	catata	atttc	aaagaga	2760
125	agctatcttc	aaattcg	att	ggcatt	ttcac	ctcta	attat	actttatt	tg	atacttt	2820
127	aacagtaacc	aattc	aaact	tcaatt	tta	atttt	aaa	tcttatt	ttta	aatata	2880
129	gatcatttga	tttcggg	tct	ataata	aaata	atata	ctaaa	tgcttatt	at	ataata	2940
131	aaactcgagt	atacttt	ggc	ttcatt	ttata	aatatt	ttta	ctaata	aatta	tactatt	3000
133	tataaactgc	taattct	ttc	ttcaaca	aga	aaata	ataaa	attatatt	aa	attttatt	3060
135	tattttatt	aa	tttaaa	att	caggtt	cttt	tcactatt	ttt	ctcaaa	atcc	3120
137	tcctctacgg	tactatt	cac	tatca	acttt	tattat	atta	aat	tttata	aa	3180
139	aatttatatt	atattatt	ca	tataaa	atat	attttt	tatat	tactta	aatta	aaatttt	3240
141	tatataatgt	tttaaat	ctt	tcagtt	cgt	cgccact	act	atgaaa	atcg	ttattact	3300
143	atattccttt	aagtact	aa	atgatt	cagt	tcctta	agtt	ttttta	aaa	atttat	3360
145	aaataaattt	ttattc	agat	actttt	tata	tttta	ataat	aaaaa	atttt	aatata	3420
147	aattttttat	aattata	aaaa	atttcg	tt	aa	attta	ac	gtcttt	cttc	3480
149	ataatagaca	tcctttt	aaa	tttatt	tatat	atattt	taatt	atatatt	ttta	ctatata	3540
151	tataaattaa	tttattt	aaa	ataagc	gaaa	aacgga	attg	aaccg	attac	cttcgg	3600
153	tgaatccgac	gaacttt	cct	tatgct	ctat	ttcgct	aaat	acaatt	aaac	ttgaaa	3660
155	ttgaactttt	attttata	aat	tcgtact	tta	atatttt	atc	cattaa	aatta	caagtt	3720
157	atattataat	atataa	atta	taagta	aatta	acttag	agg	aaagt	ttctg	ctttac	3780
159	agaagatcat	tggttcg	att	ccaat	attac	ttaaata	aat	ctata	aattta	atggata	3840
161	taaaaacctt	ctaagtt	ttta	tatgta	agtt	caaact	ttac	tagatt	ta	aatatga	3900
163	atggcgaaaa	ggtaa	acgcg	ctaa	atttag	aa	tttag	ttt	ttata	aat	3960
165	atctctttat	tcata	ttttat	aatata	cttc	ttaa	actagg	attga	actag	tatctt	4020
167	ttacagccg	aatgctt	tta	ccacta	agct	atta	agaata	ttaat	attat	ataat	4080
169	atataatagg	gaatata	gtt	taatg	gtaaa	atctt	attct	tgcata	ataa	agatag	4140
171	tcaattctac	ttattt	ccat	attata	aaat	ctata	aatgt	tata	attttt	aaata	4200
173	tatataatta	tattg	cagag	ttgat	cctag	ctcaga	atga	acgct	agaaa	tata	4260
175	acatgcaaat	ttatg	gatta	tatcat	agtg	aatag	gtgag	gatata	tataa	ttttta	4320
177	taaatagatt	ataat	atata	ataat	ctata	agcg	cattta	tttat	ataat	tgtact	4380
179	taaaaattat	tattg	ttta	aaaaa	attt	atatt	tgatt	aactag	ttg	taaaa	4440
181	gcctaccaag	gttat	gatca	aaaatt	gggt	ttaa	agaatg	taca	atcaca	ttagg	4500

RAW SEQUENCE LISTING

DATE: 05/30/2001

PATENT APPLICATION: US/09/369,992A

TIME: 11:10:52

Input Set : A:\PTO.txt

Output Set: C:\CRF3\05302001\I369992A.raw

```

183 aaataaagcc ctaaattttt tttaaatacag cagtgaaggaa tattttacaa tgagcgtaag 4560
185 cttgataaag taatattttct taaaggatga cagtatatatt ttatattgta aactttatat 4620
187 tttatttttta aatattgata aaaataaaac attagtattt gctaattttct gtgccagcag 4680
189 cagcggtaat acagaaaata ccagcgttat tcacttttatt tggcgtaaaag cgttttaagg 4740
191 ttttatatta attttattttt aaaatatatta attttaaattt gaataaaaaa taaataataa 4800
193 tataataaga gtattataaaa agtattaaga attttttgag aagtagtgaa atgcaatgat 4860
195 acaaaaaaga ataccaaagg cgaaggcata atactatata ataactgaca cttataaacg 4920
197 aaagctaagg tagcaaatag gattagatac cctagtagtc ttagctgtaa actatgaata 4980
199 ttttatattt atatattaat ataaatataa taactaacgt aataaatatt ccgcctgagt 5040
201 agtatattcg caagaacgaa attcaaagga attgacggga gcttatataa gtggtggaac 5100
203 atgtggctta attcgatgca acacgataaa ccttaccaaa atttaacaat atttttatta 5160
205 ttaaggaatt aatagtttaa taaaatatat aggtagtgcg tggctgtcgt cagttcgtgc 5220
207 tgtgaagtat taatttaagt attataacga acgtaaccct tttataaaaa aaatttttta 5280
209 taatatattt attaaatata taaaaaagac tacgtcaagt cattatgctc cttatatattt 5340
211 gggctgctca cgtgtttacat aaaatataaac aatattttat tatatgaaaa tataatatat 5400
213 taaatatatt tatagttctg attataaatt gaaactcatt tatatgaaga tggaatcact 5460
215 agtaatcgct aataagaagt atagcggtag ataagttctt aagctttgta cacaccgccc 5520
217 gtcacatctg gaaaatatta tattatataa aaattattgt aaaataataa tatataatta 5580
219 tataatttag atgaagtcgt aacaaggtag ccgtactgga aggtgcggct ggataataac 5640
221 ataaaatttt ggttgaatta tttattttaa aataatattt atatataaaa gtaattataa 5700
223 ttatataatt tttatagaca aaaatagcat taatacacat taatgtaaatt ttagttaaat 5760
225 attattttat atataaaaag gtttttagtt taatggtaaa acatactctt gataagggta 5820
227 agactttagt tcaattctaa aataaccta
230 <210> SEQ ID NO: 2
231 <211> LENGTH: 1711
232 <212> TYPE: DNA
233 <213> ORGANISM: Plasmodium berghei
235 <400> SEQUENCE: 2
236 ttcagaaaaa taggatttga acctatatct ttctattccc aaaatagata tgttaccatt 60
238 acactatatt ctgaatattt aaaattttat acttttaagg aaaatcgaat tcctattttc 120
240 ttcttgaaaa aaagatgtct tacctttaaa cgataaaagt aaaaacttaa attacctgag 180
242 acttgaactc agaaccattc gattaaaagt cgagtactct accaattaag ctagtaattc 240
244 ttaatataac gaatctgacg agaattgaac tcgtattctt tgttatgaca aaataatatt 300
246 ttaacctaat taaactacaa attcaaataa atatatatag ggaaaaggga ttcgaaccct 360
248 ggtatatata atatctacat aaatgtagca atttatagct ataaccactc agccatttct 420
250 gtatataata ataagttaaa tcagattgaa ctgatgtaga tataaaaccc aatggattta 480
252 cagtccatcc cttttaaccc ctgaggcatt aactttatta tacatttaag tagattcgaa 540
254 ctactgatgt tcaatatttg aaaatgaatt atgagtcctt tgctttcgac ctcttagcta 600
256 taaatgttta ctttattaga gataaaggga ctggaaccct tacaacaatt attgttaatg 660
258 gattttctaa ttgaaattta gactttttat aaacatgtat ataaataata aagtcgtttg 720
260 aatatataac taatatatta cagaataaaa attatttttt ctttatatat atttaaatta 780
262 ttaattttatt tataaaatta actcataaac aacgaatata aattatattt atattattta 840
264 aagtcctattg tgtataccaa atttcaccat atctctatta tatactatat aaatgatatt 900
266 cagatttgaa ctgaaataaa ataatttgca attatccact ttacctaat aagttatatc 960
268 attattatat attataagat aaataaagag atttgaactc atataaaaaga aaccacaatt 1020
270 ccttatctta accttttagg ttatatattt cattattaaa acttattata tattataaat 1080
272 attattataa atatataaaa tattatttaa atataaatca tttaatattt ttatttttaa 1140
274 attatatata catataataa aattatcatt aaaactagaa gatttaataa aattatattt 1200
276 atataaattt gatataataa tatatatatt atatctataa attaaatttg gtgaaattat 1260

```

RAW SEQUENCE LISTING

DATE: 05/30/2001

PATENT APPLICATION: US/09/369,992A

TIME: 11:10:52

Input Set : A:\PTO.txt

Output Set: C:\CRF3\05302001\I369992A.raw

```

278 atattttaatt tttttattaa aaaaaattat atccttacc ttttaatttaa tattataata 1320
280 attaccataa accttattta aatatacata tttatacctt atataatata tcagagtggg 1380
282 gtatagtttt aaaaacccca tattaactaa aaagacatct aatctagggt ctaatagatt 1440
284 taataatttg agatataaat gattctcatg gtgactctgt atttttttca aataatgtaa 1500
286 atatggttta aatgtttatac cataattata acagatatat cttacaaatt ttaattttta 1560
288 atcgaaataa gattgataga catattttatt aatttttaatt ttataattat atttactaga 1620
290 taaatataat aaaaaaggaa gattttaattt ttttaacatt tttatttttag gagttaaaaa 1680
292 ttttatcata ataattttat attataaaat a 1711

```

295 <210> SEQ ID NO: 3

296 <211> LENGTH: 516

297 <212> TYPE: DNA

298 <213> ORGANISM: Plasmodium berghei

300 <400> SEQUENCE: 3

```

301 ttaatagaca tggacataaa ggtggtattt cttatattaa tgatattaat gatatgcctt 60
303 atttaaataa caaaatacaa cctgatttat ttgtaagtgc tattggtata ccttctagaa 120
305 taaatatagg tcaaataatta gagggatatat atggattaaa tagtttatat ttaaataata 180
307 gatataataat atctaataat ttaaatacta attattataa taattatatt aataatttta 240
309 attattataa atataattat aataataatt ttgaattcaa taaaatatca tataattata 300
311 ataaatattt tttaaaaaat ccgtttaacgg gccatttaatt acagaatagt atttgtttaa 360
313 ataattatta ttattataaa ttagtacata tggtaaaaga taaattaaga tatagattca 420
315 taggattata ttctgaatta actcaacaac ctgtaaaagg aaatacaaaa caaggaggtc 480
317 aaagatttgg tgaaatggaa gtatgggcgc tagaag 516

```

320 <210> SEQ ID NO: 4

321 <211> LENGTH: 161

322 <212> TYPE: DNA

323 <213> ORGANISM: Plasmodium berghei

325 <400> SEQUENCE: 4

```

326 gttcaaaaat cagatttgac tgataacaca tggaacttca atccattgct ctaccattga 60
328 gctataatga ctttaataata ttattattat aatagaatat aaccaaaagg ttaaggtaat 120
330 gaactttgat ttcattaata taggttcgaa tccttttagga c 161

```

333 <210> SEQ ID NO: 5

334 <211> LENGTH: 17

335 <212> TYPE: DNA

336 <213> ORGANISM: Artificial

338 <220> FEATURE:

339 <223> OTHER INFORMATION: OLIGONUCLEOTIDE USEFUL AS PRIMER

341 <400> SEQUENCE: 5

342 gacctgcatg aaagatg 17

345 <210> SEQ ID NO: 6

346 <211> LENGTH: 18

347 <212> TYPE: DNA

C--> 348 <213> ORGANISM: ARTIFICIAL (OLIGONUCLEOTIDE AS PRIMER)

W--> 350 <220> FEATURE:

W--> 350 <223> OTHER INFORMATION: (←)

350 <400> SEQUENCE: 6

351 gtatcgcttt aataggcg 18

354 <210> SEQ ID NO: 7

355 <211> LENGTH: 18

356 <212> TYPE: DNA

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/369,992A

DATE: 05/30/2001

TIME: 11:10:52

Input Set : A:\PTO.txt

Output Set: C:\CRF3\05302001\I369992A.raw

C--> 357 <213> ORGANISM: ARTIFICIAL: OLIGONUCLEOTIDE USEFUL AS PRIMER
 W--> 359 <220> FEATURE:
 W--> 359 <223> OTHER INFORMATION:
 359 <400> SEQUENCE: 7
 360 gccactacta tgaaaatc
 363 <210> SEQ ID NO: 8
 364 <211> LENGTH: 18
 365 <212> TYPE: DNA
 C--> 366 <213> ORGANISM: ARTIFICIAL: OLIGONUCLEOTIDE USEFUL AS A PRIMER
 W--> 368 <220> FEATURE:
 W--> 368 <223> OTHER INFORMATION:
 368 <400> SEQUENCE: 8
 369 gcgttcattc tgagctag
 372 <210> SEQ ID NO: 9
 373 <211> LENGTH: 24
 374 <212> TYPE: DNA
 C--> 375 <213> ORGANISM: ARTIFICIAL: OLIGONUCLEOTIDE USEFUL AS A PRIMER
 W--> 377 <220> FEATURE:
 W--> 377 <223> OTHER INFORMATION:
 377 <400> SEQUENCE: 9
 378 gcggttaatac agaaaatgca agcg
 381 <210> SEQ ID NO: 10
 382 <211> LENGTH: 26
 383 <212> TYPE: DNA
 C--> 384 <213> ORGANISM: ARTIFICIAL: OLIGONUCLEOTIDE USEFUL AS A PRIMER
 W--> 386 <220> FEATURE:
 W--> 386 <223> OTHER INFORMATION:
 386 <400> SEQUENCE: 10
 387 agcacgaact gacgacagcc atgcac
 390 <210> SEQ ID NO: 11
 391 <211> LENGTH: 18
 392 <212> TYPE: DNA
 C--> 393 <213> ORGANISM: ARTIFICIAL: OLIGONUCLEOTIDE USEFUL AS A PRIMER
 W--> 395 <220> FEATURE:
 W--> 395 <223> OTHER INFORMATION:
 395 <400> SEQUENCE: 11
 396 atcaggaata cgtctagg
 399 <210> SEQ ID NO: 12
 400 <211> LENGTH: 18
 401 <212> TYPE: DNA
 C--> 402 <213> ORGANISM: ARTIFICIAL: OLIGONUCLEOTIDE USEFUL AS A PRIMER
 W--> 404 <220> FEATURE:
 W--> 404 <223> OTHER INFORMATION:
 404 <400> SEQUENCE: 12
 405 gctagtatta tgtcttct
 408 <210> SEQ ID NO: 13
 409 <211> LENGTH: 18
 410 <212> TYPE: DNA
 C--> 411 <213> ORGANISM: ARTIFICIAL: OLIGONUCLEOTIDE USEFUL AS A PRIMER

18

18

24

26

18

18

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

VERIFICATION SUMMARY

DATE: 05/30/2001

PATENT APPLICATION: US/09/369,992A

TIME: 11:10:53

Input Set : A:\PTO.txt

Output Set: C:\CRF3\05302001\I369992A.raw

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:336 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:348 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6
L:350 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:350 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:357 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7
L:359 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:359 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:366 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8
L:368 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:368 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:375 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
L:377 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:377 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:384 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
L:386 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:386 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:393 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11
L:395 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:395 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:402 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12
L:404 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:404 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:411 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13
L:413 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:413 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:420 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:14
L:422 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:422 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:429 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:15
L:431 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:431 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:438 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:16
L:440 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:440 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:447 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:17
L:449 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:449 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:456 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:18
L:458 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:458 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:465 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:19
L:467 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:467 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:474 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:20
L:476 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:476 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:483 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:21

VERIFICATION SUMMARY

DATE: 05/30/2001

PATENT APPLICATION: US/09/369,992A

TIME: 11:10:53

Input Set : A:\PTO.txt

Output Set: C:\CRF3\05302001\I369992A.raw

L:485 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:485 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:492 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:22
L:494 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:494 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1442 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:48
L:1444 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:1444 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1451 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:49
L:1453 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:1453 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1460 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:50
L:1462 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:1462 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1469 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:51
L:1471 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:1471 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1478 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:52
L:1480 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:1480 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1487 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:53
L:1489 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:1489 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: